Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
CN 027
TRENTON, N.J. 08625

August 24, 1987

Mr. Richard Myers
General Manager
Weldon Asphalt Corporation
141 Central Avenue
Westfield, New Jersey 07090

Reference: Report of Emission Tests
The Asphalt Mix Dryer (N.J.Stack No. 001)

Dear Mr. Myers:

In accordance with the New Jersey Air Pollution Control Act Title 26:2C-9(d), enclosed is a copy of emission tests conducted at the referenced source on June 10, 11, 15, 16 and 17, 1987.

The purpose of the tests was to determine whether the emission rates to the atmosphere from the Asphalt Mix Dryer (NJ Stack No. 001) were within the standards prescribed by New Jersey Administrative Code 7:27-8 and the Code of Federal Regulations, Title 40 - Part 60, Subpart I.

The test results indicate that the particulate emission rates from the Asphalt Mix Dryer (NJ Stack No. 001) exceeded the standards prescribed by New Jersey Administrative Code 7:27-8, and the Code of Federal Regulations, Title 40 - Part 60, Subpart I, during all test runs.

The test results also indicate that amounts of total hydrocarbons and nitrogen oxides were being emitted to the atmosphere from the Asphalt Mix Dryer (N.J. Stack No. 001) and are not listed as air contaminants on Permit/Certificate Number 037866 as filed under New Jersey Administrative Code 7:27-8.

Louis Mikolajczyk
Chief
Bureau of Technical Services

LSS:ss

New Jersey is an Equal Opportunity Employer

Let's protect our earth

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
CN 027
TRENTON, N.J. 08625

August 24, 1987

MEMORANDUM

TO: Don Patterson

FROM: Louis Mikolajczyk

SUBJECT: Report of Emission Tests - Weldon Asphalt Corporation. Linden, New Jersey

Attached, please find the enforcement copy of the report of emission tests for stack emission tests conducted on the subject facility on June 10, 11, 15, 16 and 17, 1987.

The purpose of the test was to determine whether the emission rates to the atmosphere from the Asphalt Mix Dryer (NJ Stack No. 001) were within the standards prescribed by New Jersey Administrative Code 7:27-8 and the Code of Federal Regulations, Title 40 - Part 60, Subpart I.

The test results indicate that the particulate emission rates from the Asphalt Mix Dryer (NJ Stack No. 001) exceeded the standards prescribed by New Jersey Administrative Code 7:27-8 and the Code of Federal Regulations, Title 40 - Part 60, Subpart I, during all test runs.

The test results also indicate that amounts of total hydrocarbons and nitrogen oxides were being emitted to the atmosphere from the Asphalt Mix Dryer (N.J. Stack No. 001) and are not listed as air contaminants on Permit/Certificate Number 037866 as filed under New Jersey Administrative Code 7:27-8.

Please take appropriate enforcement action.

Louis Mikolajczyk
Chief
Bureau of Technical Services

LSS:ss

cc: William O'Sullivan
Milt Polakovic
Metropolitan Regional Field Office

REPORT OF EMISSION TESTS

THE NEW JERSEY AIR POLLUTION CONTROL CODE

TECHNICAL SERVICES DOCT

WELDON ASPHALT CORPORATION
MARSHES DOCK ROAD
LINDEN, NEW JERSEY
N.J.D.E.P. I.D. NO. 040015

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
BUREAU OF AIR POLLUTION CONTROL

BUREAU OF TECHNICAL SERVICES

SEPTEMBER 4, 1987

TECHNICAL SERVICES DOCT

WELDON ASPHALT CORPORATION
MARSHES DOCK ROAD
LINDEN, NEW JERSEY
NJDEP ID NUMBER 040015

PURPOSE:

The purpose of the test was to determine whether the emission rates to the atmosphere from the Asphalt Mix Dryer (NJ Stack No. 001) were within the standards prescribed by New Jersey Administrative Code 7:27-8 and the Code of Federal Regulations, Title 40 - Part 60, Subpart I.

PERSONNEL:

The tests were performed by personnel of the New Jersey Department of Environmental Protection, Bureau of Technical Services, Air Quality Engineering and Technology. Those participating were:

Thomas Brown - Environmental Specialist
Dipak Ghayal - Assistant Environmental Engineer

The samples were analyzed at the Bureau of Air Quality Laboratories located in Ewing Township, New Jersey by:

Henry Smith - Principal Chemist
Thomas LaFisca - Principal Chemist
Randy Barbiero - Principal Chemist
Gloria Griffith - Principal Laboratory Technican

SAMPLING DATES:

The Asphalt Mix Dryer (NJ Stack No. 001) was tested on June 10, 11, 15, 16 and 17, 1987.

PLANT OPERATING CONDITIONS:

PARTICULATE TESTS

RUN	DATE	TOP MIX (Tons/Hr.)	BASE MIX (Tons/Hr.)	TOTAL (Tons/Hr.)
1	06-10-87	275.5	NONE	275.5
2	06-11-87	275.7	NONE	275.7
3	06-11-87	224.2	74.8	299.0

NOTE: Permit/Certificate Number 037866 lists a maximum production rate of 215,000 pounds per hour. (107.5 Tons/Hr.).

TOTAL HYDROCARBONS/NITROGEN OXIDES

RUN	DATE	TOP MIX (Tons/Hr.)	BASE MIX (Tons/Hr.)	TOTAL (Tons/Hr.)
1	06-15-87	241.0	NONE	241.0
2	06-16-87	144.7	72.3	217.0
3	06-17-87	121.1	147.9	269.0

NOTE: Permit/Certificate Number 037866 lists a maximum production rate of 215,000 pounds per hour. (107.5 Tons/Hr.)

SAMPLING PROCEDURES:

The particulate tests sampling and laboratory analysis was conducted in accordance with procedures described in New Jersey Administrative Code 7-27B-1 et. seq. "SAMPLING AND ANALYTICAL PROCEDURES FOR DETERMINING EMISSIONS OF PARTICLES FROM MANUFACTURING PROCESSES AND FROM COMBUSTION OF FUELS."

The total hydrocarbon tests sampling and laboratory analysis was conducted in accordance with procedures described in New Jersey Administrative Code 7-27B-3 et. seq. "SAMPLING AND ANALYTICAL PROCEDURES FOR THE DETERMINATION OF VOLATILE ORGANIC SUBSTANCES FROM SOURCE OPERATIONS."

The total hydrocarbon test results shown are in equivalent methane.

The nitrogen oxides tests sampling and laboratory analysis was conducted in accordance with the procedures described in the Code of Federal Regulations, Title 40-Part 60 - Appendix A - Reference Method 7D - "Determination of Nitrogen Oxides Emissions from Stationary Sources - Alkaline Permanganate/Ion Chromatographic Method.

A complete description of the sampling systems, analytical procedures and the original field notes are on file with the Bureau of Technical Services.

TEST RESULTS:

PARTICULATES

RUN NO.	DATE	ALLOWABLE EMISSION RATE Sub 8. (lbs/hr)	ACTUAL EMISSION RATE (lbs/hr)
1	06-10-87	7.99	26.76
2	06-11-87	7.99	30.31
3	06-11-87	7.99	28.99

PARTICULATES

RUN NO.	DATE	ALLOWABLE EMISSION RATE N.S.P.S. SUBPART I (gr/dscf)	ACTUAL EMISSION RATE (gr/dscf)
1	06-10-87	0.04	0.13
2	06-11-87	0.04	0.15
3	06-11-87	0.04	0.15
AVG.		0.04	0.14

TOTAL HYDROCARBONS:

RUN NO.	DATE	ACTUAL EMISSION RATE (as methane)	
		(ppm)	(lbs/hr)
1	06-15-87	60.13	3.55
2	06-16-87	49.70	3.01
3	06-17-87	58.30	3.24

NITROGEN OXIDES

RUN NO.	DATE	ACTUAL EMISSION RATE (as NO_2)	
		(ppm)	(lbs/hr)
1	06-15-87	52.9	8.96
2	06-16-87	25.2	4.37
3	06-17-87	64.5	10.28

CONCLUSIONS:

The test results indicate that the particulate emission rates from the Asphalt Mix Dryer (NJ Stack No. 001) exceeded the standards prescribed by New Jersy Administrative Code 7:27-8 and the Code of Federal Regulations Title 40 - Part 60, Subpart I. during all test runs.

The test results also indicate that amounts of total hydrocarbons and nitrogen oxides were being emitted to the atmosphere from the Asphalt Mix Dryer (N.J. Stack No. 001) and are not listed as air contaminants on Permit/Certificate Number 037866 as filed under New Jersey Administrative Code 7:27-8.

for
Louis Mikolajczyk
Chief
Bureau of Technical Services

TB/LSS:ss

WELDON ASPHALT CORP.
ASPHALT MIX DRYER N.J. STACK NO: 001

PARTICULATE RUN NO:1 TEST DATE: 6/10/87

POINT	DELTA P (IN H20)	DELTA H (IN H20)	STACK TEMP (DEGREES F)	METER TEMP (DEGREES F)
A- 1	1.400	2.66	287	67.0
A- 2	1.300	2.47	289	73.0
A- 3	0.870	1.66	287	74.0
A- 4	0.730	1.34	288	75.0
A- 5	0.650	1.23	286	75.0
A- 6	0.650	1.23	286	75.0
A- 7	0.940	1.78	289	75.0
B- 1	1.400	2.66	287	78.0
B- 2	1.300	2.47	292	78.0
B- 3	0.940	1.78	291	78.0
B- 4	0.900	1.71	291	78.0
B- 5	0.780	1.48	289	78.0
B- 6	0.580	1.10	288	78.0
B- 7	0.510	1.00	286	78.0
C- 1	1.500	2.85	287	78.0
C- 2	1.400	2.66	289	78.0
C- 3	0.890	1.70	292	78.0
C- 4	0.820	1.56	291	77.0
C- 5	0.750	1.42	290	77.0
C- 6	0.630	1.20	290	77.0
C- 7	0.500	0.95	289	77.0
AVGS.=	0.899	1.76	289	76.3

METER VOL= 49.877 (DACF) Pb= 30.08 (IN. Hg) ORSAT-CO2= 0.00 %
Y-FACTOR= 1.01 Pst= -0.09 (IN. H2O) O2= 21.20 %
NOZZLE DIAM.= .258 (INCHES) Cp= .8126 CO= 0.00 %
H2O(COLLECTED)= 184.4 (mls) TEST TIME= 63 (MIN.) N2= 78.80 %

STACK DIMENSIONS= 64.00 BY 23.25 (INCHES) STACK AREA= 10.33 (SQ. FT.)

Ps= 30.07 (IN. Hg) Pm= 30.21 (IN. Hg) MOISTURE= 14.91 %
METER VOL= 49.769 (DSCF) Ms= 27.24 Us= 62.89 (FT/SEC)
Gd= 0.94 ISOKINETICS= 95.26 %

ACFM= 38,990.6
WSCFM= 27,740.4
DSCFM= 23,604.0

WELDON ASPHALT CORP.

ASPHALT MIX DRYER N.J. STACK NO: 001

PARTICULATE RUN NO:1 TEST DATE: 6/10/87

SAMPLE WT= .4267 (GRAMS)

GRAINS/DSCF= 0.1323 GRAMS/DSCM= 0.3027

GRAINS/WSCF= 0.1126 GRAMS/WSCM= 0.2576

SUB-6 ALLOWABLE(BASED ON .02 GRAINS/WSCF)= 4.7555 (LB/HR)

PARTICULATE EMISSION RATE= 26.7652 (LB/HR)

ADDITIONAL TESTS USING FLOW DATA FROM PARTICULATE RUN:1

NO ADDITIONAL TESTS WERE CONDUCTED

WELDON ASPHALT CORP.
ASPHALT MIX DRYER N.J. STACK NO: 001

PARTICULATE RUN NO:2 TEST DATE: 6/11/87

POINT	DELTA P (IN H20)	DELTA H (IN H20)	STACK TEMP (DEGREES F)	METER TEMP (DEGREES F)
A- 1	1.400	2.70	290	76.0
A- 2	1.200	2.30	291	76.0
A- 3	0.850	1.60	290	76.0
A- 4	0.910	1.70	291	78.0
A- 5	0.710	1.30	290	79.0
A- 6	0.620	1.20	289	81.0
A- 7	0.560	1.10	289	82.0
B- 1	1.400	2.70	292	83.0
B- 2	1.100	2.10	294	84.0
B- 3	0.910	1.70	293	85.0
B- 4	0.870	1.60	294	86.0
B- 5	0.780	1.50	293	87.0
B- 6	0.560	1.10	291	87.0
B- 7	0.560	1.10	291	87.0
C- 1	1.400	2.70	290	87.0
C- 2	1.300	2.50	293	88.0
C- 3	0.870	1.60	294	89.0
C- 4	0.790	1.50	293	89.0
C- 5	0.770	1.50	292	89.0
C- 6	0.630	1.20	290	89.0
C- 7	0.610	1.20	290	89.0
AVGS.=	0.874	1.71	291	84.1

METER VOL= 47.061 (DACF) Pb= 30.22 (IN. Hg) ORSAT-CO2= 1.00 %
Y-FACTOR= 1.01 Pst= -0.09 (IN. H2O) O2= 19.80 %
NOZZLE DIAM.= .258 (INCHES) Cp= .8126 CO= 0.00 %
H2O(COLLECTED)= 227.4 (mls) TEST TIME= 63 (MIN.) N2= 79.20 %

STACK DIMENSIONS= 64.00 BY 23.25 (INCHES) STACK AREA= 10.33 (SQ. FT.)

Ps= 30.21 (IN. Hg) Pm= 30.35 (IN. Hg) MOISTURE= 18.79 %
METER VOL= 46.490 (DSCF) Ms= 26.90 Us= 62.33 (FT/SEC)
Gd= 0.93 ISOKINETICS= 93.96 %

ACFM= 38,644.6
WSCFM= 27,524.2
DSCFM= 22,353.0

WELDON ASPHALT CORP.
ASPHALT MIX DRYER N.J. STACK NO: 001

PARTICULATE RUN NO:2 TEST DATE: 6/11/87

SAMPLE WT= .4766 (GRAMS)
GRAINS/DSCF= 0.1582 GRAMS/DSCM= 0.3619
GRAINS/WSCF= 0.1285 GRAMS/WSCM= 0.2939

SUB-6 ALLOWABLE(BASED ON .02 GRAINS/WSCF)= 4.7185 (LB/HR)
PARTICULATE EMISSION RATE= 30.3073 (LB/HR)

ADDITIONAL TESTS USING FLOW DATA FROM PARTICULATE RUN:2

NO ADDITIONAL TESTS WERE CONDUCTED

WELDON ASPHALT CORP.
ASPHALT MIX DRYER N.J. STACK NO: 001

PARTICULATE RUN NO:3 TEST DATE: 6/11/87

POINT	DELTA P (IN H20)	DELTA H (IN H20)	STACK TEMP (DEGREES F)	METER TEMP (DEGREES F)
A- 1	1.400	2.70	290	83.0
A- 2	1.200	2.30	291	84.0
A- 3	0.860	1.60	290	84.0
A- 4	0.940	1.80	291	84.0
A- 5	0.730	1.40	289	84.0
A- 6	0.600	1.10	285	83.0
A- 7	0.570	1.10	285	83.0
B- 1	1.400	2.70	288	83.0
B- 2	1.200	2.30	291	83.0
B- 3	0.940	1.80	291	84.0
B- 4	0.910	1.70	291	84.0
B- 5	0.790	1.50	290	83.0
B- 6	0.580	1.10	286	83.0
B- 7	0.550	1.10	288	84.0
C- 1	1.400	2.70	288	85.0
C- 2	1.300	2.50	291	84.0
C- 3	0.890	1.60	291	82.0
C- 4	0.820	1.50	291	82.0
C- 5	0.790	1.50	289	81.0
C- 6	0.610	1.10	288	81.0
C- 7	0.610	1.10	289	82.0
AVGS.=	0.887	1.72	289	83.1

METER VOL= 47.672 (DACF) Pb= 30.22 (IN. Hg) ORSAT-CO2= 0.40 %
Y-FACTOR= 1.01 Pst= -0.09 (IN. H2O) O2= 20.40 %
NOZZLE DIAM.= .258 (INCHES) Cp= .8126 CO= 0.00 %
H2O(COLLECTED)= 197.0 (mls) TEST TIME= 63 (MIN.) N2= 79.20 %

STACK DIMENSIONS= 64.00 BY 23.25 (INCHES) STACK AREA= 10.33 (SQ. FT.

Ps= 30.21 (IN. Hg) Pm= 30.35 (IN. Hg) MOISTURE= 16.49 %
METER VOL= 47.182 (DSCF) Ms= 27.09 Us= 62.49 (FT/SEC)
Gd= 0.94 ISOKINETICS= 92.23 %

ACFM= 38,740.9
WSCFM= 27,675.2
DSCFM= 23,111.3

WELDON ASPHALT CORP.

ASPHALT MIX DRYER N.J. STACK NO: 001

PARTICULATE RUN NO:3 TEST DATE: 6/11/87

SAMPLE WT= .4475 (GRAMS)

GRAINS/DSCF= 0.1463 GRAMS/DSCM= 0.3348

GRAINS/WSCF= 0.1222 GRAMS/WSCM= 0.2796

SUB-6 ALLOWABLE(BASED ON .02 GRAINS/WSCF)= 4.7444 (LB/HR)

PARTICULATE EMISSION RATE= 28.9907 (LB/HR)

ADDITIONAL TESTS USING FLOW DATA FROM PARTICULATE RUN:3

NO ADDITIONAL TESTS WERE CONDUCTED

WELDON ASPHALT CORP.
N.J.D.E.P. PLANT I.D. NO: 040015
ASPHALT MIX DRYER N.J. STACK NO: 001

CONDENSATE/TRAVERSE RUN NO: 1 TEST DATE: 6/15/87

POINT	TRAVERSE 1 DELTA-P (IN H2O)	TRAVERSE 1 STACK TEMP (DEGREES F)	TRAVERSE 2 DELTA-P (IN H2O)	TRAVERSE 2 STACK TEMP (DEGREES F)
A- 1	1.400	272	1.300	275
A- 2	1.300	273	1.300	276
A- 3	0.880	274	0.950	276
A- 4	0.970	276	0.970	275
A- 5	0.760	276	0.750	276
A- 6	0.620	274	0.610	275
A- 7	0.670	273	0.670	272
B- 1	1.300	274	1.400	277
B- 2	1.100	275	1.200	277
B- 3	0.980	276	1.100	277
B- 4	1.000	276	1.100	276
B- 5	0.810	276	0.790	275
B- 6	0.640	274	0.650	275
B- 7	0.550	273	0.590	273
C- 1	1.500	275	1.400	271
C- 2	1.300	277	1.200	270
C- 3	0.880	278	0.930	268
C- 4	0.870	278	1.200	270
C- 5	0.920	277	0.920	274
C- 6	0.650	275	0.670	275
C- 7	0.510	275	0.530	270
AVGS=	0.912	275	0.943	274

AVG. DELTA-P= 0.928 AVG. STACK TEMP= 275

METER TEMP= 90.5 (DEG-F) Pb= 29.89 (IN. Hg) ORSAT-CO2= 0.40 %
DELTA-H= 1.00 (IN. H2O) Pst= -0.09 (IN. H2O) O2= 20.60 %
METER VOL= 34.860 (DACF) Cp= .8126 CO= 0.00 %
Y-FACTOR= 1.01 H2O= 140.8 (mls COLLECTED) N2= 79.00 %

STACK DIMENSIONS= 64.00 BY 23.25 (INCHES) STACK AREA= 10.33 (SQ. FT.)

METER VOL= 33.611 (DSCF) Ps= 29.88 (IN. Hg) Ms= 27.10
MOISTURE= 16.54 % Pm= 29.96 (IN. Hg) Gd= 0.94
Us= 63.62 (FT/SEC)

ACFM= 39,444.1
WSCFM= 28,426.3
DSCFM= 23,725.6

EMISSION TESTS USING FLOW DATA FROM CONDENSATE/TRAVERSE RUN:1

CONCENTRATION-HYDROCARBONS AS METHANE(INCLUDING METHANE)= 60.13 (PPM-DRY)
EMISSION RATE-HYDROCARBONS AS METHANE(INCLUDING METHANE)= 3.5520(LB/HR)

CONCENTRATION-NOx(FLASK)= 52.9 (PPM-DRY)
EMISSION RATE-NOx(FLASK)= 8.96(LB/HR)

WELDON ASPHALT CORP.
N.J.D.E.P. PLANT I.D. NO: 040015
ASPHALT MIX DRYER N.J. STACK NO: 001

CONDENSATE/TRAVERSE RUN NO: 2 TEST DATE: 6/16/87

POINT	TRAVERSE 1 DELTA-P (IN H2O)	TRAVERSE 1 STACK TEMP (DEGREES F)	TRAVERSE 2 DELTA-P (IN H2O)	TRAVERSE 2 STACK TEMP (DEGREES F)
A- 1	1.700	250	1.600	278
A- 2	1.400	255	1.300	278
A- 3	0.920	255	0.880	278
A- 4	1.050	258	1.000	280
A- 5	0.860	260	0.790	280
A- 6	0.630	258	0.470	278
A- 7	0.640	270	0.420	280
B- 1	1.600	270	1.600	280
B- 2	1.200	279	1.200	278
B- 3	0.940	280	0.950	278
B- 4	1.050	280	1.050	285
B- 5	0.830	280	0.800	286
B- 6	0.620	280	0.630	286
B- 7	0.640	280	0.640	286
C- 1	1.600	275	1.500	270
C- 2	1.400	278	1.400	275
C- 3	0.930	278	0.920	275
C- 4	0.900	278	0.940	275
C- 5	0.880	280	0.880	275
C- 6	0.640	280	0.710	270
C- 7	0.550	280	0.480	270
AVGS=	0.970	272	0.927	278

AVG. DELTA-P= 0.949 AVG. STACK TEMP= 275

METER TEMP= 96.8 (DEG-F) Pb= 29.97 (IN. Hg) ORSAT-CO2= 0.20 %
DELTA-H= 1.00 (IN. H2O) Pst= +0.10 (IN. H2O) O2= 21.00 %
METER VOL= 36.690 (DACF) Cp= .8126 CO= 0.00 %
Y-FACTOR= 1.01 H2O= 134.7 (mls COLLECTED) N2= 78.80 %

STACK DIMENSIONS= 64.00 BY 23.25 (INCHES) STACK AREA= 10.33 (SQ. FT.)

METER VOL= 35.072 (DSCF) Ps= 29.98 (IN. Hg) Ms= 27.21
MOISTURE= 15.37 % Pm= 30.04 (IN. Hg) Gd= 0.94
Us= 64.13 (FT/SEC)

ACFM= 39,758.7
WSCFM= 28,729.1
DSCFM= 24,312.7

EMISSION TESTS USING FLOW DATA FROM CONDENSATE/TRAVERSE RUN:2

CONCENTRATION-HYDROCARBONS AS METHANE(INCLUDING METHANE)= 49.7 (PPM-DRY)
EMISSION RATE-HYDROCARBONS AS METHANE(INCLUDING METHANE)= 3.0085(LB/HR)

CONCENTRATION-NOx(FLASK)= 25.2 (PPM-DRY)
EMISSION RATE-NOx(FLASK)= 4.37(LB/HR)

WELDON ASPHALT CORP.
N.J.D.E.P. PLANT I.D. NO: 040015
ASPHALT MIX DRYER N.J. STACK NO: 001

CONDENSATE/TRAVERSE RUN NO: 3 TEST DATE: 6/17/87

POINT	TRAVERSE 1 DELTA-P (IN H2O)	TRAVERSE 1 STACK TEMP (DEGREES F)	TRAVERSE 2 DELTA-P (IN H2O)	TRAVERSE 2 STACK TEMP (DEGREES F)
A- 1	1.600	276	1.500	268
A- 2	1.200	278	1.100	270
A- 3	0.870	279	0.820	270
A- 4	0.940	281	0.930	270
A- 5	0.740	280	0.740	270
A- 6	0.590	279	0.540	268
A- 7	0.620	278	0.580	267
B- 1	1.300	279	1.400	271
B- 2	1.100	281	1.100	272
B- 3	0.960	282	0.900	272
B- 4	1.000	283	0.910	271
B- 5	0.750	282	0.770	270
B- 6	0.570	281	0.560	268
B- 7	0.560	280	0.460	267
C- 1	1.400	278	1.400	268
C- 2	1.400	279	1.200	270
C- 3	0.840	282	0.840	271
C- 4	0.760	282	0.840	272
C- 5	0.750	281	0.690	270
C- 6	0.560	279	0.600	269
C- 7	0.310	285	0.400	268
AVGS=	0.866	280	0.844	270

AVG. DELTA-P= 0.855 AVG. STACK TEMP= 275

METER TEMP= 82.5 (DEG-F) Pb= 30.04 (IN. Hg) ORSAT-CO2= 0.20 %
DELTA-H= 1.00 (IN. H2O) Pst= -0.09 (IN. H2O) O2= 21.00 %
METER VOL= 34.448 (DACF) Cp= .8126 CO= 0.00 %
Y-FACTOR= 1.01 H2O= 165.1 (mls COLLECTED) N2= 78.80 %

STACK DIMENSIONS= 64.00 BY 23.25 (INCHES) STACK AREA= 10.33 (SQ. FT.)

METER VOL= 33.872 (DSCF) Ps= 30.03 (IN. Hg) Ms= 26.84
MOISTURE= 18.73 % Pm= 30.11 (IN. Hg) Gd= 0.93
Us= 61.22 (FT/SEC)

ACFM= 37,958.3
WSCFM= 27,477.7
DSCFM= 22,329.9

EMISSION TESTS USING FLOW DATA FROM CONDENSATE/TRAVERSE RUN:3

CONCENTRATION-HYDROCARBONS AS METHANE(INCLUDING METHANE)= 58.3 (PPM-DRY)
EMISSION RATE-HYDROCARBONS AS METHANE(INCLUDING METHANE)= 3.2413(LB/HR)

CONCENTRATION-NOx(FLASK)= 64.5 (PPM-DRY)
EMISSION RATE-NOx(FLASK)= 10.28(LB/HR)